

\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

LIDENTIFICATION

OT STATE OF SITE NUMBER

TL TL D 0 6 23 40641

PART 1 - SIT	E INFORMAT	ION AN	ID ASSESSN	MENT	L	<u> </u>	17 0 9 6 5 3	40641
II. SITE NAME AND LOCATION								
01 SITE NAME (Legel, common, or descriptive name of site)		02 STREE	T, ROUTE NO., O	R SPECIFIC	LOCATIONID	ENTIFIER	,	
Mobil Chemical Corp., Phosphoraus Div	Depue Plant	Dep	of and			treets		Yan and
03 CITY	ľ			06 COUN			07 COUNTY CODE	108 CONG DIST
DeRie		<u> </u>	61322		ureau		011	18
DE COORDINATES LATITUDE LONGITUE	DE	•	nop: Peft , NEX :				es P.R 19 2 10 F	479
AD DIRECTIONS TO SITE (Consenting to a second of the second								
I-80 to the Route 89 onit. Heard son Rode 29 passes De Pue. Take the "man Corp. 9 New Jersey Zinc one off the "	iam dray	" "	to Roul to Defu	e 29	and h	ead w	lest on R Lob.1 Che	le 29. mical
III. RESPONSIBLE PARTIES					_			
01 OWNER (# known)		_	(Business, making.					
Mobil Chemical Corp., Phosphorus	s Au,	B.0.	Box 8	२७५६	3			
03 CITY		04 STATE	05 ZIP CODE	06 T	ELEPHONE NU	MBER		
. 'Richmond		V.A.	23261	(80	-8PT (Pa	4291		
07 OPERATOR (# known and dilivent from owner)	- 0	OB STREET	(Business, meeng	residential)				
Hobil Chemical Corp - Phosphorous Div De	pue Plant	7. U.	Bc, G74	Marai	wete St	reets		
O9 CITY			11 ZIP CODE		ELEPHONE NU		T	
Delie	ľ	v	61355	(8)	5) 447 -	2141	1	
13 TYPE OF OWNERSHIP (Check one)								
A. PRIVATE D B. FEDERAL:	(Agency name)		. DC. STAT	re 🗆 D	COUNTY	D E. MU	NICIPAL	
☐ F. OTHER(Specify)			G. UNK	NOWN				
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)								
■ A. RCRA 3001 DATE RECEIVED: 8 /16 /80 ■ B.	UNCONTROLLE	D WASTE	SITE (CERCLA 10	DAT	E RECEIVED:	MONTH DA	Y YEAR C	NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD	· · · · · · · · · · · · · · · · · · ·							
DI ON SITE INSPECTION BY (Check at that apply) A. EPA B. EPA CONTRACTOR C. STATE D. OTHER CONTRACTOR E. LOCAL HEALTH OFFICIAL F. OTHER:								
■ YES DATE / / / DE LOCAL	L HEALTH OFFIC	IAL 🗆	F. OTHER:	 -	(Spi	ecify)		,
CONTRACTO	OR NAME(S):							
	YEARS OF OPERAT		1 2		New I	ersey 2	inc brevious	uner,
A. ACTIVE B. INACTIVE C. UNKNOWN		67 GINNING YEA	Pres	G YEAR	_ 0'	UNKNOW	, 00	,
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR AL SURfunic acid (product & ingledent	LLEGED CACCOS	ine /-	ONL I real			 u		
المامينية المراجع	` \	4.JO / S	ECIC TISE					
Phosphoric acid (product & "inguidunt") - Corrosive/reactive Radioactive material - calculated phosphote rack & costalysts (vanadium)								
Heavy metals - zinc wastes, wish from	fentilizer en	ochuch è	n- Toxic	c / per	sistent			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR PO	OPULATION							
Environment: Groundwater, surface	water, s	soil c	contamina	hon, c	damaze	to fl	ara and f	fauna
Population: Air contamination, contamina	aturn of se	smerte'	, worken	enboe	we for a	and a	pill cleani	ups
V. PRIORITY ASSESSMENT								
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete	s Part 2 - Wasie Informs	tion and Parl	3 - Description of Ha	sardous Con	deions and inciden	rta)		
☐ A. HIGH ☐ B. MEDIUM ☐ (Inspection required)	C. LOW (Inspection time av	radable basis)	D. NON		eeded, complete c	wrem disposi	tion form)	
VL INFORMATION AVAILABLE FROM					· ·			
	OF (Agency/Organizati	on Rock	eford office	- wa	ter Pollut	non	03 TELEPHONE	NUMBER
	linois Emir	_		_	-	i	1815 1 987	- 7404
	AGENCY	06 ORGA			TELEPHONE N	UMBER	OB DATE	
·				C)		MONTH DAY	YEAR

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

OI STATE OF SITE NUMBER

IL 0 062340641

II. HAZARDOUS CONDITIONS AND INCIDENTS
01 a A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
This potential is due to bost operations at the site by New Jersey Zmc Division of Gulf & Western
Tudustries Inc. They make zink dust. In addition, because metal contamination many disc come from
the manufacturing of fahlizers. These elements are lost in processing the phosphale. There may be contamination due to acid spills which seem to hoppen regularly at the cite; however, the acids
are not persistent.
01 B B. SURFACE WATER CONTAMINATION 02 DOBSERVED (DATE: No. 6, 1978) DOTENTIAL DALLEGED 04 NARRATIVE DESCRIPTION
There has been a past history of acid spills at the site due to careless transfers from storage to trules,
Actions in place fine winte cut-off influes on leaks in suction lines on Jam 19, 1979 27 tons of
partially neutralized sulfanc acid spilled due to alack in the suction line of their acid pump. Honorist of take Defree could not take place due to high snow drifts. It seems after every major
Hamilton of Lake Defue could not tobbe place due to high snow drifts. It seems after every major spill an alanm or other monthing instrument is matalled showing possible poor design enteric and parameters.
01 © C. CONTAMINATION OF AIR 03 POPULATION POTENTIAL LY AFFECTED: ~ 1000 04 NARRATIVE DESCRIPTION
A All the a chill of approximation building to account the second of the seco
The first property of the property will be the control of the property of the
The acid also recicled with the product remaining of ter zinc are is roaded and created the S gas. This gas touched through the court lives and cooped into basements - I prison alred and 2 injuried.
Acid spills still could create problems at the site,
01 B D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: ~ 1000 04 NARRATIVE DESCRIPTION 05 DATE:
Wis bolevilled is one to the majoritacional of Editatic deed on the site. Done to use broading of
in operative alarms and other things; if a spill of concentrated sulfunic acus comes into
contact with a moderately strong exictioning agent, a explosion could result at the site
01 D E. DIRECT CONTACT 02 D OBSERVED (DATE:
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
Nove
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
01 DF. CONTAMINATION OF SOIL SO 02 DOBSERVED (DATE:) DOTENTIAL DALLEGED 03 AREA POTENTIALLY AFFECTED: (Acres) This is due to the past achology of New Jones Zinc Co. at the site. These may be introde
01 DF. CONTAMINATION OF SOIL SO 02 DOBSERVED (DATE:) DOTENTIAL DALLEGED 03 AREA POTENTIALLY AFFECTED: (Acres) This is due to the past achology of New Jones Zinc Co. at the site. These may be introde
01 DF. CONTAMINATION OF SOIL SO 02 DOBSERVED (DATE:) DOTENTIAL DALLEGED 03 AREA POTENTIALLY AFFECTED: (Acres) This is due to the past achology of New Jones Zinc Co. at the site. These may be introde
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
01 DF. CONTAMINATION OF SOIL 02 DBSERVED (DATE:
01 DF. CONTAMINATION OF SOIL 050 02 DOBSERVED (DATE:
01 DF. CONTAMINATION OF SOIL SO 02 DOBSERVED (DATE:
01 DF. CONTAMINATION OF SOIL 050 O2 DOBSERVED (DATE:
01 DF. CONTAMINATION OF SOIL 050 02 DBSERVED (DATE:
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01 DF. CONTAMINATION OF SOIL 30 OBSERVED (DATE:
01 DF. CONTAMINATION OF SOIL 30 OBSERVED (DATE:
01 DF. CONTAMINATION OF SOIL 050 02 0BSERVED (DATE:) POTENTIAL 0ALLEGED 03 AREA POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION This is due to the past activities of New Tonces Zinc Co. at the site. There may be nitrate contamination; however, this is not a prierily pollutured. There is also got pile composed of residues from smelting operation on Alwa Jaces Zinc Property that has been exactly. 01 DG DRINKING WATER CONTAMINATION 02 0BSERVED (DATE:) POTENTIAL 0ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION NONE - Site is located very closely to Lake Depue so the groundwater flow is and look from the topo map to be upgradient of the cite 01 DH. WORKER EXPOSUREMURY 117 02 0BSERVED (DATE:) POTENTIAL 1 ALLEGED 10 DH. WORKER EXPOSUREMURY 117 02 0BSERVED (DATE:) POTENTIAL 1 ALLEGED This potential is due the spills that seem to hopping almost all the time at the cite cand the workers who must reach to the situation. Workers responsing to a spill of hot, concentrated workers who must reach to the situation. Workers responsing to a spill of hot, concentrated sufficie and should have an SCBA's, rubben overcotty, and gattles. Phosphoric acude rubber
01 DF. CONTAMINATION OF SOIL 30 OBSERVED (DATE:
01 DF. CONTAMINATION OF SOIL 050 02 DOBSERVED (DATE:
01 DF. CONTAMINATION OF SOIL 050 02 DBSERVED (DATE:) POTENTIAL DALLEGED 03 AREA POTENTIALLY AFFECTED: 160001 This is due to the past achines of New Token Zinc Co. at the site. There may be nitrate contamination; however, this is not a primity pollutant. There is also got pile composed of residues from smelting appearing on the token property that has been exactly. 01 DG. DRINKING WATER CONTAMINATION 02 DBSERVED (DATE) POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 04 DARRATIVE DESCRIPTION 05 DBSERVED (DATE) POTENTIAL DALLEGED 06 DBSERVED (DATE) POTENTIAL DALLEGED 07 DBSERVED (DATE) POTENTIAL DALLEGED 08 WARRATIVE DESCRIPTION 09 WARRATIVE DESCRIPTION 10 DBSERVED (DATE) POTENTIAL DALLEGED 11 DB H. WORKER EXPOSUREANUARY 117 OR DBSERVED (DATE) POTENTIAL DALLEGED 11 DBSERVED (DATE) PROSPHORIC COLLEGED CONSCRIPTION 12 DBSERVED (DATE) PROSPHORIC COLLEGED CONSCRIPTION 13 DBSERVED (DATE) PROSPHORIC COLLEGED CONSCRIPTION 14 DBSERVED (DATE) PROSPHORIC COLLEGED CONSCRIPTION 15 DBSERVED (DATE) SISTERS DO DESCRIPTION 16 DBSERVED (DATE) SISTERS DO DESCRIPTION 17 DBSERVED (DATE) SISTERS DO DESCRIPTION 18 DBSERVED (DATE) SISTERS DO DESCRIPTION 18 DBSERVED (DATE) SISTERS DO DESCRIPTION 19 DBSERVED (DATE) SISTERS DO DESCRIPTION 10 DBSERVED (DATE) DBSERVED (DATE) SISTERS DESCRIPTION 10 DBSERVED (DATE) SISTERS DESCRIPTION 10 DBSERVED (DATE) DBSERVED (DATE) DBSERVED (DATE) SISTERS DESCRIPTION
01 B.F. CONTAMINATION OF SOIL 050 02 DOBSERVEDIDATE: 03 AREA POTENTIALLY AFFECTED: 10 OF NARRATIVE DESCRIPTION 11 OF NARRATIVE DESCRIPTION 12 OF NARRATIVE DESCRIPTION 13 AREA POTENTIALLY AFFECTED: 14 OF NARRATIVE DESCRIPTION 15 In due to the past ochishes of New Torces Zinc Co. at the site. There may be nitrate combinination; however, this is not a princip pollubul. There is also got pile composed of residues from smelting appealun on New Jenes Bine. Property that has been exactly. 15 OF DRINKING WATER CONTAMINATION 16 DRINKING WATER CONTAMINATION 17 OF OBSERVED (DATE: 18 OF OBSERVED (DATE: 19 OF OF OBSERVED (DATE: 10 OF NARRATIVE DESCRIPTION 10 OF NARRATIVE DESCRIPTION 11 OF OBSERVED (DATE: 10 OF OBSERVED (DATE: 11 OF OBSERVED (DATE: 12 OF OBSERVED (DATE: 13 OF OBSERVED (DATE: 14 OF OBSERVED (DATE: 15 OF OBSERVED (DATE: 16 OF OBSERVED (DATE: 17 OF OBSERVED (DATE: 18 OF OBSERVED (DATE: 19 OF OBSERVED (DATE: 10 OF OBSERVED (DATE: 20 OBSERVED (DATE: 21 OF OBSERVED (DATE: 22 OBSERVED (DATE: 23 OF OBSERVED (DATE: 24 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 26 OF OBSERVED (DATE: 27 OF OBSERVED (DATE: 28 OF OBSERVED (DATE: 29 OF OBSERVED (DATE: 20 OF OBSERVED (DATE: 20 OF OBSERVED (DATE: 21 OF OBSERVED (DATE: 21 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 26 OF OBSERVED (DATE: 27 OF OBSERVED (DATE: 27 OF OBSERVED (DATE: 27 OF OBSERVED (DATE: 28 OF OBSERVED (DATE: 29 OF OBSERVED (DATE: 20 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 2
01 B.F. CONTAMINATION OF SOIL 050 02 DOBSERVEDIDATE: 03 AREA POTENTIALLY AFFECTED: 10 OF NARRATIVE DESCRIPTION 11 OF NARRATIVE DESCRIPTION 12 OF NARRATIVE DESCRIPTION 13 AREA POTENTIALLY AFFECTED: 14 OF NARRATIVE DESCRIPTION 15 In due to the past ochishes of New Torces Zinc Co. at the site. There may be nitrate combinination; however, this is not a princip pollubul. There is also got pile composed of residues from smelting appealun on New Jenes Bine. Property that has been exactly. 15 OF DRINKING WATER CONTAMINATION 16 DRINKING WATER CONTAMINATION 17 OF OBSERVED (DATE: 18 OF OBSERVED (DATE: 19 OF OF OBSERVED (DATE: 10 OF NARRATIVE DESCRIPTION 10 OF NARRATIVE DESCRIPTION 11 OF OBSERVED (DATE: 10 OF OBSERVED (DATE: 11 OF OBSERVED (DATE: 12 OF OBSERVED (DATE: 13 OF OBSERVED (DATE: 14 OF OBSERVED (DATE: 15 OF OBSERVED (DATE: 16 OF OBSERVED (DATE: 17 OF OBSERVED (DATE: 18 OF OBSERVED (DATE: 19 OF OBSERVED (DATE: 10 OF OBSERVED (DATE: 20 OBSERVED (DATE: 21 OF OBSERVED (DATE: 22 OBSERVED (DATE: 23 OF OBSERVED (DATE: 24 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 26 OF OBSERVED (DATE: 27 OF OBSERVED (DATE: 28 OF OBSERVED (DATE: 29 OF OBSERVED (DATE: 20 OF OBSERVED (DATE: 20 OF OBSERVED (DATE: 21 OF OBSERVED (DATE: 21 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 26 OF OBSERVED (DATE: 27 OF OBSERVED (DATE: 27 OF OBSERVED (DATE: 27 OF OBSERVED (DATE: 28 OF OBSERVED (DATE: 29 OF OBSERVED (DATE: 20 OF OBSERVED (DATE: 25 OF OBSERVED (DATE: 2
01 DF. CONTAMINATION OF SOIL 050 02 DBSERVED (DATE:) POTENTIAL DALLEGED 03 AREA POTENTIALLY AFFECTED: 160001 This is due to the past achines of New Token Zinc Co. at the site. There may be nitrate contamination; however, this is not a primity pollutant. There is also got pile composed of residues from smelting appearing on the token property that has been exactly. 01 DG. DRINKING WATER CONTAMINATION 02 DBSERVED (DATE) POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 04 DARRATIVE DESCRIPTION 05 DBSERVED (DATE) POTENTIAL DALLEGED 06 DBSERVED (DATE) POTENTIAL DALLEGED 07 DBSERVED (DATE) POTENTIAL DALLEGED 08 WARRATIVE DESCRIPTION 09 WARRATIVE DESCRIPTION 10 DBSERVED (DATE) POTENTIAL DALLEGED 11 DB H. WORKER EXPOSUREANUARY 117 OR DBSERVED (DATE) POTENTIAL DALLEGED 11 DBSERVED (DATE) PROSPHORIC COLLEGED CONSCRIPTION 12 DBSERVED (DATE) PROSPHORIC COLLEGED CONSCRIPTION 13 DBSERVED (DATE) PROSPHORIC COLLEGED CONSCRIPTION 14 DBSERVED (DATE) PROSPHORIC COLLEGED CONSCRIPTION 15 DBSERVED (DATE) SISTERS DO DESCRIPTION 16 DBSERVED (DATE) SISTERS DO DESCRIPTION 17 DBSERVED (DATE) SISTERS DO DESCRIPTION 18 DBSERVED (DATE) SISTERS DO DESCRIPTION 18 DBSERVED (DATE) SISTERS DO DESCRIPTION 19 DBSERVED (DATE) SISTERS DO DESCRIPTION 10 DBSERVED (DATE) DBSERVED (DATE) SISTERS DESCRIPTION 10 DBSERVED (DATE) SISTERS DESCRIPTION 10 DBSERVED (DATE) DBSERVED (DATE) DBSERVED (DATE) SISTERS DESCRIPTION

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION

101 STATE 02 SITE NUMBER

12 0 062346641

IL HAZARDOUS CONDITIONS AND INCIDENTS (Continued)
01 D J. DAMAGE TO FLORA 02 D OBSERVED (DATE:) POTENTIAL D ALLEGED 04 NARRATIVE DESCRIPTION
So its of acids acrely how killed any vegetation in and around the plant and lake outlet
arisms. These has been no proof; however, it seems that there is no importance attached to
these situations. Fauna (fish) seem to be more important than the aesthetic flow.
8/74
01 D K. DAMAGE TO FAUNA 02 DOBSERVED (DATE: 8/74) DOTENTIAL DALLEGED 04 NARRATIVE DESCRIPTION (Include name(s) of species)
In August, ABY Mobil Chemical Corp. compand a major fish kill (~188,000 fish) in Lake Deflie.
Mobil Paid 375,000 to the Dept of Conservation for downages. Mobil them developed an effluent control program to prevent aprils on teny Lake De Rue; however, this program is somewhat of a failure. There have
program to prevent spills entering helpe the nomener, this program is somewhat at a failure. There have
been constructed other spills into the loke but no kills.
01 D L. CONTAMINATION OF FOOD CHAIN 02 D OBSERVED (DATE:) D POTENTIAL D ALLEGED 04 NARRATIVE DESCRIPTION
NONE - due to the type of contaminants at the site
01 M. UNSTABLE CONTAINMENT OF WASTES 02 DOBSERVED (DATE: 5/15/80_) D POTENTIAL D ALLEGED
(Solls/numpf/standing kovids/leaking drumts)
03 POPULATION POTENTIALLY AFFECTED: ~ 1000 04 NARRATIVE DESCRIPTION
The spill of May 15th, 1980 was a major one for euncontrated sulfunic axid. There have been
other acid spills (phosphoric & sulfunic) at the site due to O/M practices at the plant.
01 N. DAMAGE TO OFFSITE PROPERTY 02 DOBSERVED (DATE: 5/15/80) DOTENTIAL DALLEGED
OA NARRATIVE DESCRIPTION
The major damage done to affile property was the shut-down of the De Rue Sewinge
Treatment plant.
01 B O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs, 02 B ORSERVED (DATE 5/15/80) [] POTENTIAL [] ALLEGED
04 NARRATIVE DESCRIPTION NOTE: Possible contamination of sewers by New Jence two Population Section!
The spill of 5/15/80 shut down the Defle Brusque Plant and contaminated the sever lines
in town. Measures have been taken to prevent feture contamination by removing and plugging all sever lines and manhous in the surfacility phosphoric acres manufactury area, along with
placen automatic maniform year in the remains sever lines on site.
01 D P. ILLEGAL/UNAUTHORIZED DUMPING 02 D OBSERVED (DATE:) D POTENTIAL D ALLEGED
04 NARRATIVE DESCRIPTION
None
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
Sectings of groundwater from gypoum storage area and cleanuater pand - enters take De Pue thru outfall
00 2. Problems with PH, TOS, fluworide, and ammonia nitrojen limitations of NPDOS permit
Outfall 001 - effluent obschange from "non-combet" cooling water & boiler foodwater treatment discharge -
problems meet 785 limilation for MPDES parent.
III. TOTAL POPULATION POTENTIALLY AFFECTED: ~ 1000
IV. COMMENTS
Gulf & western Industries, Inc. 's New Jensey Zinc Co. Division awad the site prior to Mobil. For a
time Hobil leased post of the plant before buy it from New Jensey Zinc . Past site operations by
New Jeney Zinc may be contributy to site problems. New Jenes Zinc still has an operation
young on adjacent to Alabil.
V. SOURCES OF INFORMATION (Cae specific references, e. g., siste lifes, sample analysis, reports)
Illinois E.P.A. Files - Rockford Office
- MINOIS CITICS - POSCHOUGH CONTROL

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POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION						
DI STATE	OZ SITE NUMBER					
ന	11 7 46 53 40 641					

	A		PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION			IL D OF 53 40641		
II WASTEST	TATES, QUANTITIES, AN	DCHARACTER						
	TATES (Check of their apply) D.E. SLURRY	02 WASTE QUANT	TITY AT SITE of waste quantities	M A. TOXIC	ERISTICS (Check at the Lapp	LE DI HIGHLY		
D B POWDER, FINES # F. LIQUID TONS C SLUDGE L) G GAS CUBIC YARDS		6098100	₩ B CORRO W C. RADIOA W D. PERSIS	CTIVE () G FLAMMABLE () K, REACTIVE		IVE PATIBLE		
L) D OTHER	(Specify)	NO OF DRUMS		ļ		<u> </u>	- Liver torque	
III. WASTE T	YPE							
CATEGORY	SUBSTANCE N	IAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			
SLU	SLUDGE		Unknow	n	oil studies			
OLW	OILY WASTE		Unknow	1	ods			
SOL	SOLVENTS							
PSD	PESTICIDES							
осс	OTHER ORGANIC CH	HEMICALS						
ЮС	INORGANIC CHEMIC	ALS	Unknow	Jn.	salts & cate	abusts (slightly r	advactue)	
ACD	ACIDS		Unknow		morganic acid			
BAS	BASES							
MES	HEAVY METALS		Unknou	bn				
IV. HAZARDO	OUS SUBSTANCES (500 AC	ppendix for most frequen			L			
01 CATEGORY			03 CAS NUMBER	04 STORAGE/DISF	04 STORAGE/DISPOSAL METHOD		06 MEASURE OF CONCENTRATION	
1			1				<u> </u>	
 			1				 	
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			T .					
V. FEEDSTO	CKS (See Appendix for CAS Number	hrit)					<u> </u>	
CATEGORY	01 FEEDSTOCE	K NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOC	KNAME	02 CAS NUMBER	
FDS				FDS				
FOS				FDS		1		
FDS			1	FDS				
FDS				FDS	M			
VI. SOURCES	S OF INFORMATION (C4+)	specific references, e.g.	, state liles, sample analysis, (reports)				
_	Environmental ?				tackford Office	2		



ecology and environment, inc.

223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415

International Specialists in the Environmental Sciences

DATE : July 13, 1983

review

TO

: File/USEPA Region V

FROM

Claude E. Mays, III/Environmental Scientist

SUBJECT:

Preliminary Assessment

Illinois/TDD#R5-8212-01A-153

DePue/Mobil Chemical Corporation - Phosphorous Division - DePue Plant

ILD062340641

Attached is EPA's Preliminary Assessment Form 2070-12 for the above referenced site.

Primary information was gathered from the following source(s):

 Illinois Environmental Protection Agency file, Rockford, Illinois

2,

3.

4.

Information indicates the following responsible parties should be listed. They are listed here because of space limitations:

1. The New Jersey Zinc Company, Division of Gulf and Western Industries, Inc.

2.

3,

4.

5,

6.

Presently, data gaps or no verification exists in the following key area(s): 1. Hydrogeology 2. Waste quantities 3. Past paractices of New Jersey Zinc 4. 5. A review of the available data indicates that additional information will be necessary to assess the impact(s) on: 1. Soil contamination 2. Groundwater contamination 3. 4. 5. Suggested methods/sources for obtaining additional information are: 1. On site inspection - take soil samples for heavy metals 2. If sample results show elevated levels of heavy metals hydrogeological study. 3.

Notice of an apparent need for emergency action was transmitted to N/A on N/A

by N/A

4.

SUMMARY OF APPROVAL OF SITE STRATEGY for the New Jersey Zinc Site

The strategy is to assist the State of Illinois in its efforts to compel the Site's Potentially Responsible Parties (PRPs) to address the site condition. Under the strategy, the PRPs would be given an opportunity to enter into an agreement with the State to remediate the Site.

Should the PRPs fail to enter into a timely and U.S. EPA/IEPA-acceptable agreement, U.S. EPA would consider using federal authority to compel action at the Site. In the event that the Site Assessment Team (SAT) believes a substantial change in the approved strategy is needed, it will meet and petition the Region V RDT for approval of a change in strategy.

Site Background

The Site is an inactive zinc smelting facility encompassing an area of about 810 acres. New Jersey Zinc Corporation operated the facility for a zinc smelting operation. New Jersey Zinc Corporation, which is now called Zinc Corporation of America, currently owns approximately 60 acres of the Site. Mobil Mining and Minerals Company (Mobil) owns approximately 750 acres of the Site including rights to an adjacent lake, Lake DePue. Mobil used the facility to produce diammonium phosphate fertilizer and sulfuric acid.

The Site is bordered on the north by commercial farmland; to the east by the Village of DePue and an unnamed tributary on the Negro Creek, to the south by the Village of DePue and Lake DePue (a backwater lake of the Illinois River); and to the West by the Village of DePue.

Site Contaminant Sources and Areas

Contamination at the Site is generally the result of the waste management activities by the facility owner/operators. Significant sources of contamination are the gypsum waste pile (northern part of the Site), Lithophone waste pile (a white pigment consisting of zinc sulfide and barium sulfate located in the center of facility), Zinc Slag waste pile (eastern portion), Zinc Smelter waste pile (southeast portion) and two Mobil Lagoons (southern part of facility). The majority of the facility is slag-filled.

The facility activities have contaminated the sediments and surface water of Lake DePue, sediments of the creek flowing through the facility, facility soils, and residential soils. Additionally, it is very likely that the ground water has been contaminated by the facility due to run-off.

A draft Health Assessment indicates that while residential soils appear to have been contaminated, further study may be necessary to clearly characterize residential soils. In addition, a preliminary ecological assessment for the Site indicates that the contaminants at the Site have caused environmental damage.

The HRS scoring package has very recently been submitted to U.S. EPA and is under review. It is anticipated that the U.S. EPA review will be completed by August.

Approved Strategy

U.S.EPA will issue information requests pursuant to Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Section 104 (e) as soon as possible.

The response will be managed as a "State Enforcement-lead" site utilizing State authority to pursue a PRP clean up. Funds for sampling and analysis of Site contaminants, as well as, the development of remediation alternatives and cost estimates have been expended. This work is being performed by the TAT contractor at modest cost. This work should continue.

The "State Enforcement" approach will be managed as follows:

- 1. 30 days after RDT strategy approval, IEPA will submit RDT = 30 days
 Statements of Works (SOWs) for each media to be addressed.
 The SOWs may include:
 - a. Dust Suppression for the facility;
 - b. Abatement of contaminated surface water discharges to Lake DePue; and
 - c. Focused RI/FS for the (a) closure of the waste piles, Site soils, and lagoons possibly managing Site wastes in a on-site landfill, (b) residential soils and (c) surface water sediments.
- 2. U.S. EPA will review the SOWs for consistency with Superfund and will provide concurrence decision within 30 days of receipt.
- 3. IEPA will issue notice pursuant to Section 4 (q) of the State of Illinois Environmental Protection Act to the PRPs to conduct the activities described in the SOWs. The notice will be issued within two week of EPA concurrence with the SOWs. The Section 4 (q) notice will include:
 - a. Copy of the U.S. EPA/IEPA-accepted SOWs;
 - b. An outline of the elements necessary for a show of

good-faith to enter into negotiations with the State. The good faith demonstration should be received within 14 days and would include a plan to control dust at the facility and surface water discharge abatement; and

- c. 60 days after receipt of the notice, negotiations must be concluded and an agreement in place. Such an agreement should include appropriate stipulated penalties for PRP non-compliance with the agreement.
- 4. Should the negotiations end without an agreement, the U.S. EPA would consider using federal enforcement authority to compel action at the Site.
- 5. U.S. EPA will monitor Site conditions and will take removal action should site conditions warrant.
- 6. IEPA will continue work on the referral to the State Attorney General regarding the PRPs violations of Water Pollution and Superfund Statutes, independent of the negotiations with the PRPs.

This approach (a) conserves Superfund resources since, if successful, PRPs would be funding removal and remedial activities, (b) provides an opportunity for the State to exercise its authorities, (c) establishes a deadlines by which voluntary action must be undertaken and (d) it preserves U.S. EPA's ability to take removal actions, if warranted.